

Homebrew Testgear

By G8MNY

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(8 Bit ASCII graphics use code page 437 or 850, Terminal Font)

At a recent club meeting I showed off some of my large range of homebrew testgear I have built & collected over the years. Not all constructed & designed from scratch by me, but all got working properly & improved by me.

AF

A 2 Tone AF Test Osc Design
A Simple Telephone Tester
AF Noise Generator (White, Pink, & Red)
AF test amp
AF Wayne bridge Osc
AF Waveform Generator (20Hz-20kHz Sin/Sq/Tri)
Distortion Meter (1kHz)
8Û 200W Dummy Loads (water jars with 2x 15Û)
Simple AF Test Osc (1KHz Sin/Sq/Tri)

RF

A Homebrew HF SWR Bridge
A Homebrew UHF SWR Bridge
A Versatile Pulse Tester & Pot load
Absorption Wavemeter 100-300MHz
Clip on QRM ferrite Probe
DDS Osc 1Hz-50MHz PIC
Dip Oscillator 470KHz-250MHz
Freq Counter 0-200 & 430MHz
Freq Counter 0-50MHz PIC
PEP Meter modification
Piston Absorption Wavemeter 70-1000MHz
QRO 1kW HF Meter Dummy Load & Sniff
QRO Dummy Loads DC-23cms
QRP Power Meter & Dummy Load
QRP SWR Bridge
RF Directional Coupler (-40dB sniff @ 100MHz)
RF Noise Bridge for LF, MF, & HF
Spectrum Analyser Adaptor DC-80MHz (1989)
Spectrum Analyser Adaptor VHF-UHF
VHF Test Osc 144MHz AM/FM 1kHz mod

MAINS

LED as a mains NEON
Mains Isolation Transformer (200W)
Mains Peak/RMS/Mean Meter
Mains Plugtop Filter Adaptor
Mains Power protector
Maplin 13A Socket Mains Tester
Maplin Mains Meter 2000MU-UK
Variac 0-260V 200W

MEASUREMENT

198kHz Off Air Standard (1,10,100KHz,1,5,10MHz)
Car Dwell Angle & RPM Meter
Component Tester LCR/ESR/Semiconductor PIC project
Kelvin Varley Voltage Divider
Meter Damping & Speed Up (general improvements)
Reaction Timer (just a ruler)
Scope & DMM Calibrator DC & 1kHz Square wave 1mV-10V p-p

OTHER

Capacitance Subs Box 100pF-1.9uF
High Voltage Probe (from a pen)
Lab Breadboard (PSUs, BB, Osc, DVM & LS amp)
Lab 0-35V 0-10A PSU was a "CS FL-305"
Simple PIV Test Circuit (1kV AC)
Resistance Subs wheel (10 Ω -1M 24 values)

TOOLS

LED Test Screwdriver
Logic Probe
Soldering Iron Economiser/Boost
Thermostatic Soldering Iron LED
Voltage Indicator Screwdriver (LCD 12 50 110 240V)

TV

Cropeady test card Generator
PAL test waveform Gen (crosshatch, circles, ASC gains etc.)
75 Ω Colour Impedance Bridge

N.B. not all of these I have written Packet Tech Buls about.

Why Don't U send an interesting bul?

73 de John G8MNY @ GB7CIP